Omnitron Systems Technology, Inc.

FlexPoint™ 10/100 User Instructions

Description:

The FlexPoint™ 10/100 converts between Fast Ethernet fiber 100BASE-FX and 10BASE-T or 100BASE-TX twisted pair (RJ45 UTP) cabling. It operates in Half-Duplex or Full-Duplex. The following multimode (MM) and single-mode (SM) models are described here:

Model	Dual Fiber Type	Max Distance	Connector
4340	1310 nm (MM)	5 km	SC
4341	1310 nm (SM)	30 km	SC
4342	1310 nm (MM)	5 km	ST
4343	1310 nm (SM)	30 km	ST
4344	1310 nm (SM)	60 km	SC
4345	1310 nm (SM)	60 km	ST
4346	1310 nm (MM)	5 km	MT-RJ
4347	1550 nm (SM)	85 km	SC
4348	1310 nm (SM)	30 km	MT-RJ
4349	1550 nm (SM)	120 km	SC

Model	Single Fiber Type	Max Distance	Connector
4357-1	Tx13/Rx15 (SM)	20 km	SC
4357-2	Tx15/Rx13 (SM)	20 km	SC

Power Adapter Notice:

1. When Using in a standalone configuration, this product is intended to be and must be used only with a Listed Direct Plug-In Power Unit marked "Class 2" and rated at 9Vdc, 1 Amp.
2. This product should always be used only with Omnitron Supplied Power Unit model number 9113-PS.

WARNING!

Before inserting the Power Adapter, verify that the power on the unit is appropriate for your AC line voltage source.

Mounting and Cable Attachment:

The FlexPoint 10/100 can be mounted using a wall-mounting kit, DC Power Adapter or DIN-rail mounting bracket. It can also be rack-mounted using a 5-position shelf or a high-density 14-unit FlexPoint Powered Chassis.

Attach the FlexPoint 10/100 UTP via a category 5 cable to a 10BASE-T or 100BASE-Tx Ethernet device.

Attach the FlexPoint 10/100 fiber port to a 100BASE-FX Fast Ethernet device. The FlexPoint transmit (Tx) must attach to the receive side on other device; the receive (Rx) must attach to the transmit.

Switch Settings:

"RJ45 Cross-Over" Switch:

When connecting the UTP to a hub or switch, set the switch to "Straight-Through" (factory setting). When connecting to a workstation, set it to "Cross-Over."

"UTP Auto/UTP Manual" Switch:

Setting the switch to "Auto" (factory setting) enables the UTP port to automatically determine the speed and duplex mode of the connected device. If the connected device cannot provide the proper signal to indicate its own mode of operation, set the switch to "Manual." This feature allows connections with devices that do not auto-negotiate properly.

"UTP 10/UTP 100" Switch:

When the "Auto/Manual" switch is in "Manual" position, the "UTP 10/UTP 100" switch determines the speed of operation for the UTP port. When set to "UTP 100" (factory setting), the UTP port will operate at 100 Mbps. When set to "UTP 10" the UTP port will operate at 10 Mbps. Adjust the 10/100 Mbps switch to the speed of the connecting device and check for link status.

"UTP Full-Duplex/UTP Half-Duplex" Switch:

When the "Auto/Manual" switch is in "Manual" position, the "UTP Full-Duplex/UTP Half-Duplex" switch determines the duplex operation mode for the UTP port. When set to "Full Duplex" (factory setting), the UTP port operates in full duplex. When set to "Half-Duplex", the UTP port operates in Half-Duplex. Adjust the "UTP Full-Duplex/UTP Half-Duplex" switch to accommodate the connecting device and check for link status.

Half-Duplex must be used when connecting to a hub. Full-Duplex should be used when connecting switches or between a switch and a Full-Duplex workstation.

"Fiber Full-Duplex/Fiber Half-Duplex" Switch:

Since the IEEE 802.3 standard defines the Ethernet 10BASE-FL fiber differently than the Fast Ethernet 100BASE-FX, it should be noted that they are incompatible. The FlexPoint 10/100 supports 100BASE-FX only. It operates in Half or Full-Duplex mode. This switch controls the Half/Full-Duplex operation of the fiber port.

Half-Duplex should be used when connecting to a hub (with a shared/non-switched fiber port) or a workstation that supports only Half-Duplex. Full-Duplex can be used when connecting to a switch or a workstation that supports Full-Duplex operation.

User Warranty Registration

Please register on-line @ **http://www.omnitron-systems.com** or complete both sides and mail or fax this registration form to:

Omnitron Systems Technology, Inc.
140 Technology Drive, #500
Irvine, CA 92618, USA
Fax: (949) 250-6514

Name: _____
Company: _____
Address: _____
_____
City: _____ State: _____ Zip Code: _____
Country: _____
Phone: _____ Fax: _____
E-mail: _____

Please complete both sides of this form

Warning

The operating description in this Instruction Manual is for use by qualified personnel only. To avoid electrical shock, do not perform any servicing of this unit other than that contained in the operating instructions, unless you are qualified and certified to do so by Omnitron Systems Technology, Inc.

Caution

All user-required operations can be performed without opening the unit. Never attempt to open or remove the cover or tamper with the unit.

Warranty

This product is warranted to the original purchaser against defects in material and workmanship for a period of TWO YEARS from the date of shipment. A LIFETIME warranty may be obtained by the original purchaser by REGISTERING this product with Omnitron within 90 days from the date of shipment. TO REGISTER, COMPLETE AND MAIL OR FAX THE REGISTRATION PORTION OF THIS INSTRUCTION MANUAL TO THE INDICATED ADDRESS. Or you may register your product on the internet at http://www.omnitron-systems.com. During the warranty period, Omnitron will, at its option, repair or replace a product which is proven to be defective.

For warranty service, the product must be sent to an Omnitron designated facility, at Buyer's expense. Omnitron will pay the shipping charge to return the product to Buyer's designated US address using Omnitron's standard shipping method.

Limitation of Warranty

The foregoing warranty shall not apply to defects resulting from improper or inadequate use and/or maintenance of the equipment by Buyer, Buyer-supplied equipment, Buyer-supplied interfacing, unauthorized modifications or tampering with equipment (including removal of equipment cover by personnel not specifically authorized and certified by Omnitron), or misuse, or operating outside the environmental specification of the product (including but not limited to voltage, ambient temperature, radiation, unusual dust, etc.), or improper site preparation or maintenance.

No other warranty is expressed or implied. Omnitron specifically disclaims the implied warranties of merchantability and fitness for any particular purpose.

Exclusive Remedies

The remedies provided herein are the Buyer's sole and exclusive remedies. Omnitron shall not be liable for any direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any legal theory.

LED Indicators:

LED	Color	Description
Power:	Yellow	Power applied
UTP Auto:	Green	Auto-Negotiation enabled
UTP FDx:	Green	Full-Duplex detected
UTP Link:	Green	Link / Data received
UTP 10:	Yellow	10 Mbps link detected
UTP 100:	Green	100 Mbps link detected
Fiber FDx:	Green	Full-Duplex selected
F/O Link:	Green	Link / Data received

Switches:

Description	Function
1- UTP Crossover:	Straight / Crossed
2- UTP Auto:	Auto-Negotiation / Manual
3- UTP 10/100:	10 Mbps / 100 Mbps
4- UTP Duplex:	Full-Duplex / Half-Duplex
5- Fiber Duplex:	Full-Duplex / Half-Duplex

Technical Support:

For help with this product, contact our Tech. Support:

Phone: (949) 250-6510
Fax: (949) 250-6514
Address: Omnitron Systems Technology, Inc.
140 Technology Drive, #500
Irvine, CA 92618 USA
E-mail: support@omnitron-systems.com
URL: http://www.omnitron-systems.com

Form: 040-04340-001C 11/07

User Warranty Registration

Please register on-line @ **http://www.omnitron-systems.com** or complete both sides and mail or fax this registration form to:

FlexPoint Type: 10/100, Fiber Type: _____ Connector: _____
Model: _____
Serial Number: _____ Purchase Date: _____
Purchased From: _____
Address: _____
_____
City: _____ State: _____ Zip Code: _____
Country: _____
Comments and Suggestions: _____
_____
_____
_____

Please complete both sides of this form